What is claimed is:

1. A removable disk drive apparatus, comprising:

a tray on which a plurality of concave portions for a disk for supporting disk storage media having different diameters are formed in concentric positions, wherein

said tray comprises:

larger disk support lugs provided at plural points on a periphery of a concave portion for a larger diameter disk; and

smaller disk support lugs provided at plural points on a periphery of a concave portion for a smaller diameter disk;

said smaller disk support lugs including:

a storage groove provided at a plurality of points on the periphery of the concave portion for a larger diameter disk;

flexible lugs with elastic deformation supported in said storage groove, and having tip portions projecting into the periphery of the concave portion for a smaller diameter disk; and

a stopper to keep the tip portions of the flexible lugs projecting above a surface of the periphery of the concave portion for a smaller diameter disk from the storage groove.

2. The removable disk drive apparatus according to claim 1, wherein

said flexible lug is fixed to said tray with a base portion, and is formed as an elastic one point support structure, and a tip portion can be deformed elastically in a thickness direction of said tray using the base portion as a fulcrum.

3. The removable disk drive apparatus according to claim 2, wherein

said flexible lugs can be configured by bending an elastic metal line material in a U-shaped form, fixing the base portions on both ends to end surfaces of an outer periphery of the storage groove, and allowing the tip portion of a U-shaped unit to project into the periphery of the concave portion for a smaller diameter disk from the storage groove.

4. The removable disk drive apparatus according to claim 2, wherein

said flexible lugs are elastic metal plates.

5. The removable disk drive apparatus according to claim 2, wherein

said stopper is configured by projections projecting opposite each other on both sides of the storage groove, and when the flexible lugs are subject to elastic deformation, they pass over the stopper to suppress restoration of the elasticity.

6. The removable disk drive apparatus according to claim 3, wherein

said stopper is configured by projections projecting opposite each other on both sides of the storage groove, and when the flexible lugs are subject to elastic deformation, they pass over the stopper to suppress restoration of the elasticity.

7. The removable disk drive apparatus according to claim 4, wherein

said stopper is configured by projections projecting opposite each other on both sides of the storage groove, and when the flexible lugs are subject to elastic deformation, they pass over the stopper to suppress restoration of the elasticity.

8. The removable disk drive apparatus according to claim 1, wherein

said smaller disk support lugs are provided at least two points below and along the periphery of the concave portion for a smaller diameter disk.

9. The removable disk drive apparatus according to claim 2, wherein

said smaller disk support lugs are provided at least two points below and along the periphery of the concave portion for a smaller diameter disk.

10. The removable disk drive apparatus according to claim 3, wherein

said smaller disk support lugs are provided at least two points below and along the periphery of the concave portion for a smaller diameter disk.

11. The removable disk drive apparatus according to claim 4, wherein

said smaller disk support lugs are provided at least two points below and along the periphery of the concave portion for a smaller diameter disk.

12. The removable disk drive apparatus according to claim 5, wherein

said smaller disk support lugs are provided at least two points below and along the periphery of the concave portion for a smaller diameter disk.

13. The removable disk drive apparatus according to claim 6, wherein

said smaller disk support lugs are provided at least two points below and along the periphery of the concave portion for a smaller diameter disk.

14. The removable disk drive apparatus according to claim 7, wherein

said smaller disk support lugs are provided at least two points below and along the periphery of the concave portion for a smaller diameter disk.

15. A removable disk drive apparatus, comprising:

a tray on which a plurality of concave portions for a disk for supporting disk storage media having different diameters are formed in the concentric positions, wherein

said tray comprises:

larger disk support lugs provided at a plurality of points on a periphery of a concave portion for a larger diameter disk;

a storage groove provided at a plurality of points on the periphery of the concave portion for a smaller diameter disk;

said storage groove including:

a first concave portion provided opposite each other in the radial direction in a position closer to a center of the concave portion for a smaller diameter disk on both sides of said storage groove; and

a second concave portion opposite each other in the radial direction in the position apart from the center of the concave portion for a smaller diameter disk; and

a rotating lug provided in said storage groove, and having a first convex portion and a second convex portion on both sides respectively corresponding to said first and second concave portions in the storage groove;

said rotating lugs being supported as rotatable by fitting the second convex portion into the second concave portion in the storage groove; and

said rotating lugs rotating using as an axis the second convex portion on both sides fit into the second concave portion when the first convex portion is removed from the first concave portion on both sides, the rear ends of the rotating lugs touch the storage groove when the first convex portion on both sides passes over the edge which is a boundary between the concave portion for a larger diameter disk and the storage groove, thereby holding a state in which the tip portion of a smaller disk diameter projects above the surface of the periphery of the concave portion for a smaller diameter disk from the storage groove.

16. The removable disk drive apparatus according to claim 15, wherein

said front convex portions on both sides and corresponding front concave portions are hemispherical, and said rear convex portion on both sides and corresponding rear concave portions are cylindrical.

17. The removable disk drive apparatus according to claim 15, wherein

said rotating lugs branch off in three units from one plate, the branch units on both ends are radially spread on the concave portion for a larger diameter disk, and a distance

between both outer sides of the branch units is formed a little larger than a width of the storage groove.

Sub A1 Cont.

18. The removable disk drive apparatus according to claim 16, wherein

said rotating lugs branch off in three units from one plate, the branch units on both ends are extend up and down, and a distance between the divided units on both ends is formed a little larger than a width of the storage groove.

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